PATENT COOPERATION TREATY

From the:			REC'D	12	APR 2005	
INTERNATIONAL SEARCHING AUTHORIT To:	Y		Do	-WIPO		PCT
Axis Intellectual Capital Pte Ltd 21A Duxton Road Singapore 089487 Republic of Singapore		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY				
		(PCT Rule 43bis.1)				
		Date of mailing (day/month/year) 0 7 APR 2005 .				
Applicant's or agent's file reference A*/I2R-P032WO	FOR FURTHER ACTION See paragraph 2 below					
International application No. PCT/SG2005/000014	International filing date 20 January 2005	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			ur) ,	
International Patent Classification (IPC) or to Int. Cl. 7 H01Q 1/52, 1/36, 1/38	both national classifica	tion and IPC				•
Applicant			· · · · · · · · · · · · · · · · · · ·			
AGENCY FOR SCIENCE, TECH	HNOLOGY AND R.	ESEARCH et al				,
 This opinion contains indications relating to the following items: X Box No. I Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention X Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application X Box No. VIII Certain observations on the international application FURTHER ACTION 						
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.						
3. For further details, see notes to Form PCT/IS	SA/220.					
Name and mailing address of the IPEA/AU	Authorized Officer					
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRAL E-mail address: pct@ipaustralia.gov.au Facsimile No. (02) 6285 3929	MANI RAMACHANDRAN Telephone No. (02) 6283 2233					

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/SG2005/000014

Box	No. I	Basis of the opinion
1.		d to the language, this opinion has been established on the basis of the international application in the language in as filed, unless otherwise indicated under this item.
	the fo	opinion has been established on the basis of a translation from the original language into llowing language , which is the language of a translation furnished for the purposes of ational search (under Rules 12.3 and 23.1(b)).
2.		d to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the vention, this opinion has been established on the basis of:
	a. type of	material
	a	sequence listing
	t	able(s) related to the sequence listing
	b. format	of material.
	<u> </u>	n written format
	i	n computer readable form
	c. time of	filing/furnishing
	<u> </u>	ontained in the international application as filed.
		iled together with the international application in computer readable form.
		urnished subsequently to this Authority for the purposes of search.
3.	filed of	lition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been or furnished, the required statements that the information in the subsequent or additional copies is identical to that application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additional	comments:
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International application No.

PCT/SG2005/000014

Box No. V		der Rule 43 <i>bis.</i> 1(a)(i) with regard to novelty and explanations supporting such statement	
. Statement			
No	ovelty (N)	Claims 4, 12	YES
		Claims 1-3, 5-11, 13-16	NO
In	ventive step (IS)	Claims 4, 12	YES
		Claims 1-3, 5-11, 13-16	NO
Inc	dustrial applicability (IA)	Claims 1-16	YES
		Claims	NO

2. Citations and explanations:

NOVELTY & INVENTIVE STEP Claims 1-16:

The invention defined in independent claims 1 and 9 lacks novelty and an inventive step in the light of the disclosure in US 5995055 A (MILROY) 30 November 1999, in particular see Figs 6 and 7 and the corresponding description. Excepting appended claims 4 and 12, which talk about the relationship between the inter-element spacing and the lateral spacing, the other claims recite trivial shape and construction features of the antenna elements that would have been obvious to a skilled addressee. Therefore, with the exceptions of claims 4 and 12, the invention lacks novelty and an inventive step.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/SG2005/000014

Box No. VIII	Certain	observations	on the	international	application
DOY LAGO A YYY	Certain	UDSCI VALIUIIS	OH THE	miles mational	application

The sup	The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:						
1.	The independent claims are not fully supported by the description in that they do not recite that the first and the second ground conductors are continuous. A continuous ground conductor substrate is noticed in all the embodiments, and no other possible variation or disposition of ground conductors is described in the specification. It is noticed that this limitation is only introduced in appended claims 3 and 11.						
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